

IN THE SPECIFICATION

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position thereby displaying primary colors in the second display position and causing the display to provide full color capability according to particle position in the cells.

BRIEF DESCRIPTION OF THE DRAWINGS

The advantages, nature, and various additional features of the invention will appear more fully upon consideration of the illustrative embodiments now to be described in detail in connection with accompanying drawings, wherein:

FIG. 1A is an exploded perspective view of a multi-color electrophoretic image display (EPID) according to a first embodiment of the invention;

FIG. 1B is a front elevational view of the multi-color EPID illustrated in FIG. 1A;

FIG. 2A is an elevational view of an anode used in the EPID of the invention illustrating anode lines formed on the inner surface of the anode;

FIG. 2B is an elevational view of the anode illustrating a color filter array formed on the outer surface of the anode;

FIG. 2C is an elevational view of the anode illustrating an alternate color filter array design formed on the outer surface of the anode;

FIG. 3A is an elevational view of a cathode used in the EPID of the invention illustrating a two dimensional array of cells formed on the inner surface of the cathode;

FIG. 3B is a perspective view of a segment of the cathode illustrating an integrated circuit for driving the pixel cells formed on the outer surface of the cathode;

FIG. 4 is a cross-sectional view through the EPID of the first embodiment of the invention;

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FIGS. 5A and 5B are cross-sectional views through the EPID of the first embodiment of the invention illustrating the operation thereof;

FIG. 6 is an elevational view illustrating the cathode of an EPID according to a second embodiment of the invention;

FIG. 7A is a cross-sectional view illustrating an EPID according to a third embodiment of the invention;

FIG. 7B is an elevational view illustrating the cathode of the EPID of FIG. 7A;

FIG. 7C is an enlarged view of the cathode shown in FIG. 7B;

FIG. 8A is a front elevational view of an EPID according to a fourth embodiment of the invention;

FIG. 8B is a side elevational view of the EPID of the fourth embodiment of the invention; and

FIG. 8C is an exploded view of the EPID of the fourth embodiment of the invention.

It should be understood that the drawings are for purposes of illustrating the concepts of the invention and are not to scale.

DETAILED DESCRIPTION OF THE INVENTION

FIGS 1A and 1B collectively show a multi-color electrophoretic image display (EPID) 10 according to a first embodiment of the invention. The EPID 10 comprises a pair of parallel electrodes 11, 12 sealingly assembled together with spacers 13 to form a liquid and gas sealed enclosure having a small space S between the electrodes 11, 12 (FIG. 4), and an electrophoretic fluid 14 filling the space S between the electrodes. The electrophoretic fluid 14 is conventional, comprising a dielectric liquid of a dark color, such as a blue or red, having suspended therein
